

Winter 1-2021

## 2021 Update Mtg: The Spotted Lanternfly

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# The Spotted Lanternfly

**Tawny Simisky**

UMass Extension Entomology Specialist

**Wednesday, January 27, 2021**

UMass Cranberry Management Update Meeting  
9:30 – 10:00 AM

**UMASS  
AMHERST**




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## SPOTTED LANTERNFLY

• *Lycorma delicatula*

- "Lanternmoth"
- Neither a fly nor a moth.
- Order Hemiptera (true bugs, cicadas, hoppers, aphids, and others) and the Family Fulgoridae, also known as planthoppers.



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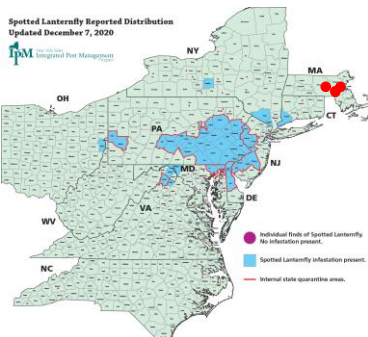
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New York  
State  
Integrated  
Pest  
Management  
Program

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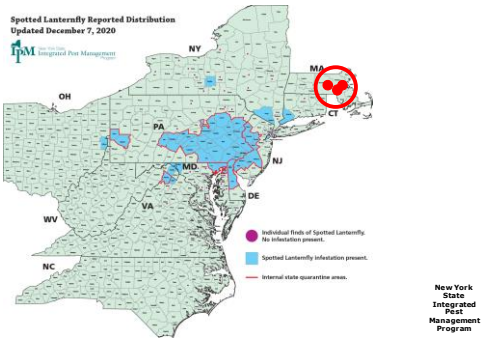
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OFFERED BY: Massachusetts Department of Agricultural Resources

PRESS RELEASE

## State Agricultural Officials Urge Residents to Check Plants for Spotted Lanternfly

Discovery of Single Adult Insect Highlights Importance of Vigilant Reporting of This Pest

FOR IMMEDIATE RELEASE: 1/23/2020  
Massachusetts Department of Agricultural Resources

**MEDIA CONTACT**

Katie Gromendyke

Phone: 617-620-6229

Online: [katie.gromendyke@state.ma.us](mailto:katie.gromendyke@state.ma.us)

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Boston, MA

FOR IMMEDIATE RELEASE: 9/25/2020

Massachusetts Department of Agricultural Resources

FOR IMMEDIATE RELEASE: 9/25/2020

Massachusetts Department of Agricultural Resources

**STATE AGRICULTURAL OFFICIALS URGE RESIDENTS TO REPORT SIGNS OF INVASIVE SPOTTED LANTERNFLY**

MDAR is urging residents to report any sign of the invasive pest.

**MEDIA CONTACT**

Craig Gilvarg, Press Secretary

Phone: [Redacted]

**BOSTON** — The Massachusetts Department of Agricultural Resources (MDAR) today announced that it has identified two dead specimens of the spotted lanternfly (SLF) in Massachusetts communities, and is urging residents to report any sign of the invasive pest. The specimens were recovered in the towns of Milford and Norwood, and were brought into Massachusetts on materials shipped from Pennsylvania counties currently under a spotted lanternfly quarantine. Additionally, MDAR was recently notified that nursery stock with spotted lanternfly egg masses and adults may have been unintentionally imported and planted in several parts of Massachusetts.



Milford and Norwood, MA

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## SPOTTED LANTERNFLY



### Hosts include 103+ species such as:

- **Tree of heaven** (*Ailanthus altissima*)
- Apple (*Malus spp.*)
- Plum, cherry, peach, apricot (*Prunus spp.*)
- Grape (*Vitis spp.*)
- **Lowbush blueberry** (*Vaccinium spp.*)
- Pine (*Pinus spp.*)
- Maple (*Acer spp.*)
- Serviceberry (*Amelanchier canadensis*)
- Black birch (*Betula lenta*)
- Paper birch (*Betula papyrifera*)
- Pignut hickory (*Carya glabra*)
- Dogwood (*Cornus spp.*)
- American beech (*Fagus grandifolia*)
- White ash (*Fraxinus americana*)
- Black walnut (*Juglans nigra*)
- Tulip poplar (*Liriodendron tulipifera*)
- Black gum (*Nyssa sylvatica*)
- American sycamore (*Platanus occidentalis*)
- Big-toothed aspen (*Populus grandidentata*)
- Black cherry (*Prunus serotina*)
- Oak (*Quercus spp.*)
- Willow (*Salix spp.*)
- Sassafras (*Sassafras albidum*)
- Japanese snowbell (*Styrax japonicus*)
- American linden (*Tilia americana*)
- Slippery elm (*Ulmus rubra*)

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## TREE-OF-HEAVEN

- *Ailanthus altissima*



- SLF shows a preference to mate on TOH; research ongoing
- Allelopathic chemicals in leaves, roots, bark that limit/prevent establishment of other plants

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## SPOTTED LANTERNFLY



- Eggs laid in rows; covered with waxy secretion; 30-50 eggs per mass, at least 2 masses per female
- Secretion is white when first laid
- Dries and cracks and darkens (dried mud)
- May not cover entire mass
- 1-1.5 inches long, 1/2- 3/4 inch wide



Greg Hoover, Penn State

Univoltine

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## SPOTTED LANTERNFLY

Eggs are seen beginning in late-September/October through June (after hatch)



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## SPOTTED LANTERNFLY



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## SPOTTED LANTERNFLY

Nymphs hatch from eggs beginning in late-April to early-May



Courtesy of Vivian Dutton

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# SPOTTED LANTERNFLY



Courtesy of Vivian Dutton

There are 4 nymphal instars; 1-3 are black with white spots and are present from May through the end of June.



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# SPOTTED LANTERNFLY



Greg Hoover, Penn State



Courtesy of Charles Citrone

4<sup>th</sup> instar nymphs are typically present in the first week of July and are red and black with white spots.

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Courtesy of Vivian Dutton



Adults are typically present by mid-July and live until the first couple of hard freezes get them. In PA, that may be November/December.

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**Impact:**

Adults in high populations can be disruptive to residents and impact daily life.

Quality of life will be changed for many.



Spotted Lanternfly in Pennsylvania


**pennsylvania**  
 DEPARTMENT OF AGRICULTURE

University of Massachusetts Amherst

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**Impact:**

Adults in high populations can be disruptive to residents and impact daily life.

Quality of life will be changed for many.

- **Nuisance: honeydew, stinging insects, sooty mold**
- **Longer term impacts to trees and shrubs yet unknown**
- **Increased labor costs for nurseries to meet quarantine requirements**

Spotted Lanternfly in Pennsylvania



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**IF YOU SUSPECT SLF IN MASSACHUSETTS:**

- 1) Take a photo.
- 2) Collect a specimen if you can.
- 3) Note your location.

**Report it Online Here:**

<https://massnrc.org/pests/slfreport.aspx>

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 UMass  
Extension

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**@UMassExtLandscape**



**GOT  
*Ailanthus*?**

and over 70 species including apple  
(*Malus* spp.), plum, cherry, peach,  
apricot (*Prunus* spp.), grape (*Vitis* spp.),  
pine (*Pinus* spp.)...

Courtesy of Vivian Dutton

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